

Title (en)  
Heater, especially for kitchen appliances

Title (de)  
Heizer, insbesondere für Küchengeräte

Title (fr)  
Élément chauffant, en particulier pour appareils de cuisine

Publication  
**EP 0590315 B1 20011219 (DE)**

Application  
**EP 93113723 A 19930827**

Priority  
DE 4229375 A 19920903

Abstract (en)  
[origin: US5498853A] At least one radiant heating resistor (10) formed from a corrugated flat material band has in different orientations projections (28) projecting from a corrugated longitudinal edge (14), which on the one hand for retaining purposes engage in an insulation (3) and on the other hand form longitudinal portions (39) with a slightly lower electrical resistance and which for the conventional operating power appear dark compared with the intermediate, visibly glowing longitudinal portions (38). Thus, on putting into operation, there is a very rapidly starting, punctiform lighting up of the corresponding longitudinal portions (38), which then spreads out to a wavy line, as well as a very reliable anchoring of the heating resistor (10).

IPC 1-7  
**H05B 3/74**; **H05B 3/68**

IPC 8 full level  
**F24C 7/04** (2006.01); **H05B 3/06** (2006.01); **H05B 3/10** (2006.01); **H05B 3/68** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP US)  
**H05B 3/748** (2013.01 - EP US)

Cited by  
DE10307246A1; GB2290688A; DE102013216290B4; DE102004024044A1; DE19856669A1; DE102022200226A1; US6184502B1; DE202013007643U1; EP1750484A1; DE102013216290A1; EP2844029A1; DE102012002163A1; WO2013113703A1; DE102021202314A1; WO2022189541A2; US7053340B2; EP3883339A1

Designated contracting state (EPC)  
AT CH DE ES FR GB GR IT LI SE

DOCDB simple family (publication)  
**US 5498853 A 19960312**; AT E211348 T1 20020115; AU 4605393 A 19940310; AU 5616696 A 19960829; AU 667563 B2 19960328; AU 692708 B2 19980611; CN 1091581 A 19940831; CN 1130953 C 20031210; DE 4229375 A1 19940310; DE 4229375 C2 20000504; DE 59310253 C5 20100107; DE 59310253 D1 20020131; EP 0590315 A2 19940406; EP 0590315 A3 19941228; EP 0590315 B1 20011219; ES 2170061 T3 20020801; JP 2003303663 A 20031024; JP 3458904 B2 20031020; JP H06229564 A 19940816; SI 9300457 A 19940331; SI 9300457 B 20031231; TR 27591 A 19950613; TW 321820 B 19971201; ZA 936467 B 19940322

DOCDB simple family (application)  
**US 11751993 A 19930903**; AT 93113723 T 19930827; AU 4605393 A 19930901; AU 5616696 A 19960621; CN 93118972 A 19930903; DE 4229375 A 19920903; DE 59310253 T 19930827; EP 93113723 A 19930827; ES 93113723 T 19930827; JP 2003140201 A 20030519; JP 24211793 A 19930903; SI 9300457 A 19930903; TR 78493 A 19930903; TW 82103725 A 19930512; ZA 936467 A 19930902